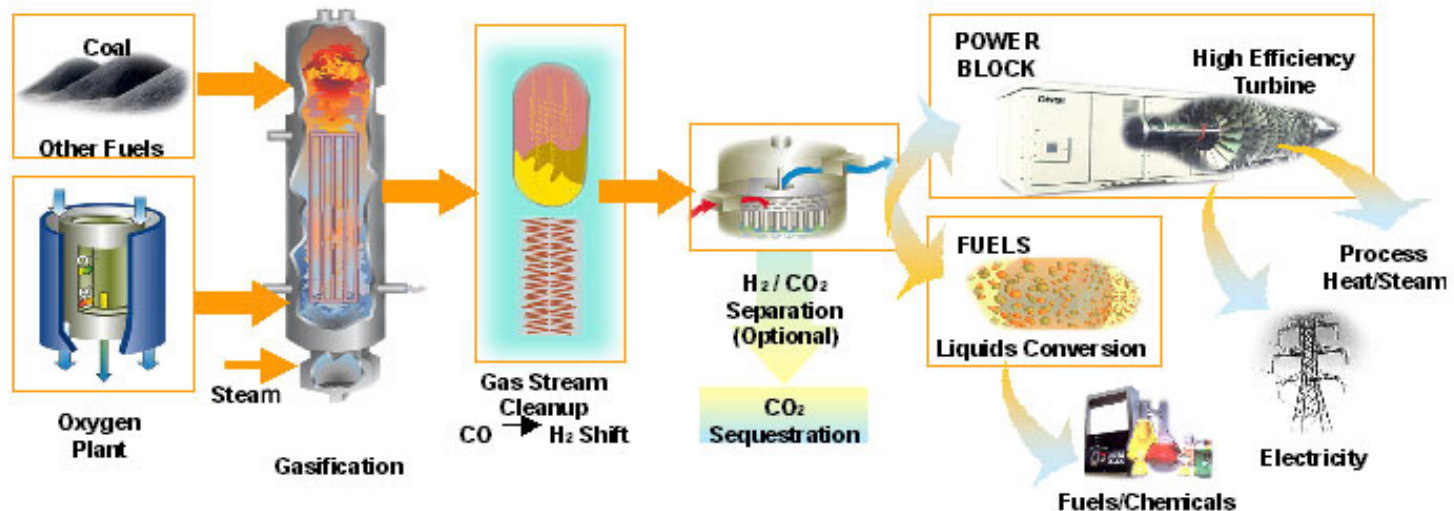


Waste Management and Processors Inc. (WMPI PTY., LLC)

- First power plant in U.S. gasifying waste-coal and low-value resources to produce clean electrical power, thermal energy, and liquid fuels.
- Project enhances Nation's energy security by producing liquid transportation fuels.
- Converts 4,700 tpd of coal waste into 41 MWe and 5,000 bpd of fuel.
- Total Project funding: \$612 million (DOE share: \$100 million).



A CCPI Round 1 Project



– **Background**

- **WMPI PTY., LLC has assembled a leading technology and engineering team to demonstrate economical conversion of domestic waste coal into high value products.**
- **Project location: Gilberton, Schuylkill County, PA.**
- **Team members:**
 - Nexant Inc., an affiliate of Bechtel Corporation.
 - Shell Global Solutions B.V., U.S., an international energy company with a major presence in coal gasification technology.
 - Uhde GmbH., a global engineering company and authorized Shell gasification supplier and contractor.
 - SASOL Technology Ltd., a world leader in Fischer-Tropsch (FT) Liquefaction technology.



– **Technology Uniqueness**

- **Coal wastes will be used to:**
 - Produce a synthesis gas (syngas) of hydrogen and carbon monoxide
 - Produce electric power and steam
 - Produce hydrocarbon liquids via FT synthesis
- **Combining Shell gasifier and Rectisol™ process removes contaminants from plant's effluent to very low levels.**



– **Schedule**

- **NEPA Process – Completing Environmental Impact Statement**
 - March 5, 2003 to November 2004
- **Design**
 - To be determined
- **Construction**
 - To be determined
- **Commissioning and Startup**
 - To be determined



Potential Benefits

- **Long-standing reclamation problem of existing coal waste piles will be solved and operating mine waste disposal activities will be significantly reduced.**
- **A unique integration of technologies will convert 4,700 tpd of coal waste into 41 MWe of clean power and 5,000 bpd of ultra clean transportation fuels.**
- **Approximately one million tons per year of waste coal will be processed at Gilberton.**
- **Technology could be applied across U.S. enabling land reclamation on a broad scale.**



– Potential Benefits

- **FT process will produce ultra-clean transportation fuels containing no sulfur or aromatics:**
 - High-cetane diesel fuel
 - Naphtha that can be upgraded to clean-burning reformulated gasoline and is an excellent feedstock for olefin production or reforming feed for fuel cells
- **Process flexibility allows use of coal, coal wastes, petroleum coke, or biomass, alone or as blends.**
- **This project brings our country one step closer to energy independence.**

